ABSTRACT

~~The present invention relates to a numerically controlled machine tool for machining a large workpiece.~~ A numerically controlled machine tool ~~(11) according to the present invention comprises~~ is disclosed including a spindle support structure ~~(13)~~ for moving the spindle ~~(75)~~ having a tool mounted thereon in directions along an X-axis, a Y-axis and a Z-axis, a workpiece support structure ~~(15)~~ having an indexing workpiece mounting table ~~(99)~~, and a chip discharge means ~~(17)~~ located between the spindle support structure ~~(13)~~ and the workpiece support structure ~~(15)~~ for discharging chips produced in the machining area to the outside ~~of the machining area~~. Since the workpiece mounting table ~~(99)~~ is allowed for rotational indexing, the setup process for the workpiece ~~(89)~~ can be performed with the workpiece mounting surface of the workpiece mounting table ~~(99)~~ facing upward, and therefore the setup process can be shortened while at the same time improving the machine operating rate. Also, since the spindle support structure ~~(13)~~, the workpiece support structure ~~(15)~~ and the chip discharge means ~~(17)~~ can be configured separately from each other, the machine tool can be manufactured and installed easily.